INSERTECTIONAL EQUIPMENT REQUEST 2016-2017

IE#: Fall 37

Internal Use

Total \$:\_6,387.14

VP ACADEMIC SERVICES

OCT 20 2016

| Requester Name: Scott Miner  | Division Name: CATSS   |
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| SECTION 1: SUMMARY INFOR   | MATION   |
| Brief Title of the Request:  | annigoti e gaylatetta el element di estati di  |
| Wire Feeder Welding Power Source ##  |  |
|  |  |
| Equipment Location Building: 800   | Room: 810  |
|  |  |
| SECTION 2: EQUIPMENT DESC  | CRIPTION   |
| The equipment is:  | ☐ An Upgrade ☐ New Equipment/Technology  |
| Describe the specific equipment requeste technology to LPC from what is current  | ed and how it will be used to replace, upgrade or provide new  |
| Wire feeder welding power supply that Arc Welding (GMAW) and Flux Cored Ause to expand the use in the lab following which added ten new 220V recepticles   | is used in a student welding workstation. Used for Gas Metal Arc Welding (FCAW). The new machine requested would allowing the completion of our electrical outlet expansion project into the room. Currently we have 6 of the wire feeder les requested. In a class of 24 students, that only leaves one loal is to have a least enough wire feeder welding machines to  |
|  |  |
| If applicable, describe the legal requirer making specific reference to the legal re   | ment, mandate, or safety concern for purchase of this equipment,<br>quirement or regulation:   |
| N/A  | agrammatic and agrammatic region of the street of the stre |
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# SECTION 3: LPC MISSION STATEMENT AND LPC PLANNING PRIORITIES

#### **LPC MISSION STATEMENT:**

LPC is an inclusive learningcentered institution providing educational opportunities and support for completion of students' transfer, degree, basic skills, career-technical, and retraining

#### LPC PLANNING PRIORITIES:

- Establish regular and ongoing processes to implement best practices to meet ACCJC standards.
- Provide necessary institutional support for curriculum development and maintenance.
- Develop processes to facilitate ongoing meaningful assessment of SLOs and integrate assessment of SLOs into college processes.
- Expand tutoring services to meet demand and support student success in Basic Skills, CTE, and Transfer courses.

## Specify how the equipment supports LPC's Mission Statement and Planning Priorities:

Mission - Used to support students in the area of Career Technical Education, transfer, degree and retraining goals.

Priorities - Replacement of the existing equipment provides the necessary institutional support to maintain curriculum. Meaningful course and program level SLO's are completed with the existing machines. The SLO's are to complete an Industry Standard Welding Certification Test. Students use these machines to practice welding similar to a computer is to a coding class. The practice of the students in conjunction with coaching from others represents the CTE version of tutoring.

## SECTION 4: EDUCATIONAL ITEMS - PROGRAM REVIEW

#### Specify the educational programs this equipment supports:

Welding Technology

#### If this equipment is included in your Program Review, please include the exact wording. If equipment is not included, explain why:

"World Class Welding Instruction - Continuous Improvement"

"Extensive use of Welding Procedure Specifications (WPS) and Standardizied Testing for Midterms and Finals in most courses"

"One area of constant concern and need is to make sure that the equipment we use in all of our CTE programs are safe to use and similar to that in our respective trade, so that students are prepared for the proper workplace environment"

## **SECTION 5: TEACHING AND LEARNING**

### Describe in detail the impact this equipment will have on teaching:

This machine will allow teaching of current equipment used in industry, along with advanced features, will help prepare the students for current and future careers. The controls on the new equipment is much simpler and easier to teach a student to operate. The machine has the ability to track welding data that is also impossible to do with our existing machines.

#### Describe in detail the impact this equipment will have on <u>learning:</u>

This machine will allow learning on current equipment used in industry.

The controls are logical and easy for the students to understand.

The new wire feeder will compliment 6 other machines in the room so adding capacity of wire feeders to workstations now increases access for everyone in the lab space. Students can study the data that the machine collects.

500+ # of students 50+ # of classes/sections Each academic year, this equipment will impact:

| SECTION 6: OUTCOMES (SLOs)   |
|--|
| Using your documented SLOs, specify how the equipment will enable student learning outcomes to be achieved?  |
| This equipment is used to complete COURSE level SLO's in more than 75% of the welding courses. This equipment is used to complete one of our three PROGRAM level SLO's as well. Passing an Industry Standard Welding Certification Test  |
| What are the consequences related to learning outcomes if request is not funded?   |
| Students will continue to attempt weld testing using the other equipment. Extended wait times in the lab due to inavilibility of the existing equipment. These existing machines see some of our heaviest usage in our welding lab environment.  |
| SECTION 7: TOTAL COST OF OWNERSHIP (FINANCIAL & SUSTAINABILITY   |
| What is the potential life span of the requested equipment?  |
| The existing equipment is more than 8 years old, and the equipment on this request should last from 10-20 years based on usage.  |
| If new storage is needed, describe the storage, location, and costs: (Specific storage costs should be detailed in the "Part A: Initial Start-up Costs" section below.)  N/A   |
| What will be required to maintain the equipment, such as regular servicing or upkeep? (Specific on-goin costs should be detailed in the "Part B: On-Going Annual Operating Costs" sections below as applicable.)   |
| Minor occasional maintenance, should operate trouble free for years  |
| Explain how this equipment meets or exceeds basic sustainability efforts and/or provides renewable resources to the college:   |
| The machine is made from materials that can be 100% recycled at the end of its usable lifespan. The old machine will be 100% recycled. All of the Steel, Aluminum and Stainless Steel that students use with this machine is recycled as well.  The new machine will draw about 15% less power than the existing machines of similar type due to the updated technology. |
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# Part A: Initial Start-up Costs

| Item                          | Cost     | <u>Comments</u>                   |
|-------------------------------|----------|-----------------------------------|
| Equipment or Materials        | 5,833.00 |                                   |
| Taxes (9.5%)                  | 554.00   |                                   |
| Shipping or Delivery Charge   | 0.00     |                                   |
| Installation Costs *          | 0.00     | Instructor & Technician installed |
| Miscellaneous Costs:          |          |                                   |
| Facilities Modifications      |          |                                   |
| Operator Training             |          |                                   |
| Maintenance & Repair Training |          |                                   |
| Other:                        |          |                                   |
| Vendor Discount               |          |                                   |
| Grand Total:                  | 6,387.00 |                                   |

Part B: On-Going Annual Operating Costs

| Item                                   | Cost  | <u>Comments</u>           |
|--|-------|---------------------------|
| Annual Service or Maintenance          | 0.00  |                           |
| Estimated Parts Replacement Per Year   | 0.00  |                           |
| Outside Standardization or Calibration | 0.00  |                           |
| Costs                                  | 0.00  |                           |
| Storage Costs                          | 0.00  |                           |
| New Supply Costs  Miscellaneous Costs: | 30.00 | feed rolls wear over time |
| Maintenance & Repair Labor             |       | s.                        |
| Other:                                 |       |                           |
| Annual Operating Costs:                | 30.00 |                           |

| Indicate the so | urce of funding for | on-going annual | operating costs |
|-----------------|---------------------|-----------------|-----------------|
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| Department Supply Budget   |
| Department Supply Edugati  |
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| Part C: Incremental Labor Costs                              |  |
|--|--|
| OPERATOR:  |  |
| Indicate the key operator: Students & Instructors            |  |
| Is this in their current scope of duties? Complete Education | onal Goals                                     |
| Indicate cost to train key operator (include in Initial Sta  | rt-up Costs above): 0                          |
| Indicate amount of time per month key operator will us       | e equipment: <u>160+ Hours</u>                 |
| MAINTENANCE & REPAIRS:                                       |  |
| Indicate the person performing maintenance and repair        | S: Welding/Auto Department Technician          |
|  |  |
| Indicate cost to train for maintenance and repairs: 0        |  |
| Indicate amount of time per month maintenance will be        | required: less than 15 minutes                 |
|  |  |
| SECTION 8: APPROVALS   |  |
| Funded requesters will be expected to respond to a brief     | f RAC feedback survey by a requested deadline. |
| Requests for computer-related equipment and printers         | must be reviewed by the LPC IT Department.     |
| Signatures:  | 10/17/18                                       |
| Requester  | Date   |
|  |  |
| IT Department (if required)                                  | Date   |
| Dean/Manager   | 10,20,16<br>Date                               |
| Vice President   | 10/24/16<br>Date                               |

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| ALLIANCE               | # T |
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| Atlas Welding Supplies | 3   |

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| Tracking Number |            |
|-----------------|------------|
| Quote Date      | 10/14/2016 |

| ALLIANCE/JANCO W/S 501 Auzerais Avenue |
|--|
| San Jose, CA 95126                     |
| 408-271-3800                           |
| 408-271-3813 (FAX)                     |

ALLIANCE W/S 800 Greenville Road Livermore, CA 94550 925-449-9353 925-449-9356 (FAX)

| ALLIANCE/ATLAS W/S |
|--------------------|
| 1224 Sixth Street  |
| Barkeley CA 94710  |

1224 Sixth Street Berkeley, CA 94710 510-524-5117 510-524-9098 (FAX) ALLIANCE/CONTRA COSTA W/S

1135 Erickson Road Concord, CA 94520 925-685-8921 925-685-8928 (FAX)

| Ship To: | CHABOT LOS POSITAS |
|----------|--------------------|
|          | SCOTT MINER        |
|          |                    |
|          | -                  |

Issued By: LHUTTON

Location: LIVERMORE

| ITEM    | QTY      | PART #   | DESCRIPTION   |             | PRICE    |     | XTEND                 |
|---------|----------|--|---|-------------|----------|-----|-----------------------|
| 1117171 | <u> </u> | LIN-K2075-2  | POWERWAVE C200 BASE MODEL   | <b>L</b> \$ | 5,076.00 | -   | <del>-5,076.0</del> 0 |
| 2       | 1        | LIN-K2774-2  | POWERWAVE C300 STL READY PAK  | \$          | 5,833.00 | \$  | 5,833.00              |
| -3      | 1        | Wiii-907514003   | DVIASTY 200 DV WINGIGHT   | 3           | 4,270.07 | 3   | 4,770                 |
| 4       |          |  |   | <b> </b>    |          |     |                       |
| 5       |          | ,  |   | <u> </u>    |          |     |                       |
| 6       |          |  |   | \$          |          | \$  |                       |
| 7       |          |  | A Maria Mariana i na Angara | \$          |          | \$  |                       |
| 8       |          |  |   | \$          |          | \$  |                       |
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| 10      |          | 12.  |   | \$          | -        | \$  | _                     |
|         |          |  |   | \$          | -        | \$  | -                     |
| 11      |          |  |   | \$          | -        | \$  | -                     |
| 12      |          |  |   | \$          |          | \$  | -                     |
| 13      |          |  |   | \$          |          | \$  | -                     |
| 14      |          |  |   | \$          |          | \$  |                       |
| 15      |          | Andrew Comments of the Comment |   | \$          |          | \$  |                       |
| 16      |          |  |   | 1 4         |          | Ι.Ψ |                       |

| 4         | SUB TOTAL | \$ 15,887.89 |
|-----------|-----------|--------------|
| DELIVER   | Y CHARGE  | \$ -         |
| SALES TAX |           |              |
| TOTAL     | \$        | 15,887.89    |

|   | NOTES: |
|---|--------|
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<sup>\*</sup> This quotation is good for 30 days from the date shown above



# Invertec° STT° II

## Excellent Penetration, Higher Productivity

- Minimal spatter; can replace TIG welding in the root pass
- · Controlled low heat input results in reduced distortion on thin materials
- · Tremendous shielding gas flexibility leither low-cost 100 % CO<sub>2</sub> or Argon/CO<sub>2</sub> blends



Processes

MIG-STT°

Output STT







Literature E4.52

|                                      | Input Power  | Rated Output: Current/                          | Input Current @<br>Rated Output                 | Output<br>Range                                      | HxWxD<br>in (mm)                        | Net Wt.<br>Ib (kg) |
|--------------------------------------|--|---|---|--|---|--------------------|
| Product<br>Name<br>Invertec° STT° II | 208/230/460/3/60<br>200-208/220-230/<br>380-415/440-460/3/50/60<br>200/208/380/400/<br>415/3/50/60 | Voltage/Duty Cycle  225A/29V/60%  200A/28V/100% | 32/36/16A<br>33/30/15/17/16A<br>36/34/20/19/18A | CURRENT Peak: 0-450A Background: 0-125A Max OCV: 85V | 23.2 x 13.2 x 24.4<br>(589 x 336 x 620) | 117<br>(53)        |
|                                      |  | 1   |   |  |   |                    |

# Power Wave® C300

#### **Power and Wire Combined**

- · Welding output remains constant throughout the entire input voltage range
- CheckPoint<sup>™</sup> technology enables you to track usage, store weld data, configure fault limits and more
- $\cdot$  Ideal for educational settings and light to medium fabrication shops



#### Processes

- Stick
- DC TIG
- Pulsed DC TIG
- · MIG
- Pulsed MIG
- · Flux-Cored

#### Output









Literature E5.100

| Product  | Product |                           | Rated Output: Current/<br>Voltage/Duty Cycle | Input Current @<br>Rated Output         | Output<br>Range    | HxWxD<br>in (mm)                      | Net Wt.<br>Ib (kg) |
|--|---------|---------------------------|--|---|--------------------|---------------------------------------|--------------------|
| Name   | Number  | A Olda Reve Hose Anna San |  | 3-Ph/40% Duty Cycle:                    |                    | 18.8 x 14 x 24.8<br>(478 x 356 x 630) | (47.6)             |
| Power Wave <sup>e</sup> C300 <sup>f)</sup><br>Base Model | K2675-2 |                           | 300A/23V/4070                                | 30/28/16/14/11A<br>1-Ph/40% Duty Cycle: | WFS:<br>50-700 ipm | 33 x 20 x 42                          | 180<br>(81.6)      |
| Steel Ready-Pak® Pkg.                                    | K2774-2 | 1-Ph 50/60:               |  | 53/48/29Å                               | (1.27-17.8 m/min)  | (050 X 302 )                          |                    |
| Educational<br>Ready-Pak® Pkg.                           | K2774-4 | 208/220-230               |  |   |                    |                                       |                    |



| LAS POSITAS COLLEGE Equipment, Apparatus and Service                         | opparatus and Service Requisition  | on #R   |                  |
|--|--|---|------------------|
| FOR REIMBURSEMENT: List payee name & ssn.                                    | TAXID# (1/DCX  | FOR OFFICE USE ONLY   | responsible from |
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May Comment to